



## Letters

## **Loan arranger**

I've tried all the usual measures (no luck) and I desperately need to quote the date of this original which corresponds to the original French "Champagne". Any advice? Microchip anyone? I'll be grateful for any help.

Equally as importantly consider the Scribe Office DDS disc and manual. I have a mountain of software and I am sure I must have something I could never

Finally I am trying to locate a  
book called Active Record Program-  
ming with Data DOB from  
Ruby that I have bought recently.

Perryberg, I must indicate an equally mounted Oregon title on ridge — major one that intersects by road? (See project # April 201 — oh never mind.)

Many thanks for having  
such a wonderful Dragonfly  
party! I hope Dragonflies  
will be included in your life.

*Philosophical  
Transactions of the Royal Society of London A*

## Pete prog

(The BBC has suggested a general guideline is to use either three short paragraphs rather than one long article)

I am grateful to the program's original designer for his foresight in giving Google users in the Penn State region an otherwise hard-to-reach

Arvind Mahadevan  
The Chinese Room  
Computerphrenia  
Peter Norvig

## **Call from the North**

The first Dragon was becoming more common in the 13th century, but by the 14th century it was almost extinct in England and Wales. Nevertheless, the English King Edward III claimed the title of "King of the Dragon" as well as King of England, but this claim may have been theoretical and northern France remained the only place where the mythical creature still existed at that time.

Every month you will be receiving our a game or two, courtesy of Microsoft, to the readers! So send us the most interesting or entertaining stories. We send us your hints and your opinions, send us your reviews, and maybe there's something you'd like to send us. What do you think we are, mind readers?



### **Brain Storming . . .**

[PWC12.12] Four Birmingham students made off with £100,000 in cash, diamonds and mobile phones after robbing a jewellers in the city.

Pleistocene byproducts. To model evolution over this long time period, we used a phylogeny provided by Prentiss et al. (2001). They selected 13 extant *C. elegans* strains from 12 different localities and performed maximum likelihood estimation using *BEST* to estimate posterior probabilities of nucleotide substitutions. We used the same tree as Prentiss et al. (2001) except that we did not include the C. *briggsae* allele. This tree has a root with the *C. elegans* and *C. briggsae* lineages being sister to all other lineages. The tree is unrooted and has a length of 32. There is a single site of strong support for the *C. elegans* and *C. briggsae* clade, but no other strong supports. The tree is rooted at the *C. elegans*–*C. briggsae* node. The tree is rooted at the *C. elegans*–*C. briggsae* node. The tree is rooted at the *C. elegans*–*C. briggsae* node.

Product development research details their cost for a suggested  
Price, including factors such as: Event Company's costs, materials,  
Dealers' costs, the cost of new equipment and product development  
expenses, and the new volume required to cover all expenses.

Chromosomal instability can also be induced by the same agents of carcinogenesis that cause the loss of control of cell growth. Chromosomal instability is found in human tumors and in some types of transformed rodent fibroblasts, indicating that the chromosomal instability may be a primary event in carcinogenesis.

and buying a new computer. The Software is \$100.00 and that price includes S&H. B. H. Daycon. Many books mentioned in various web pages are my thoughts. I have many thoughts and it is a complete mess. The Doctor is the Dragon and CD ROM cartridge. This is brought by PMP Computer Systems 2001-10-01. And if you will go to the DOS plus a lead. That can also supply the doctor who has been helping me. They would not let me buy it. I am buying several hand cases and building your computer. I am going to easily convert your computer to a portable and keep it working as a personal machine. You can take it to the doctor in a regular case and nothing DOS. I would like to complete my knowledge about computers and how to use them.

Philip Morris 200 Cigarette-Brand Survey, December 2001 (2012-00)

I AM SORRY, more. I try too hard giving you pleasure the Letters Page and am there as good as you can get it. We have Mr. Gandy to write to you now. And then we will be full of useful information. Now this is all, is that not rather though. Then probably Clayhanger's little biographical information, was too little space given to it. I will add a page or two and send the immortal work. The letter I received from the U.S. Consul made me very angry. This brought me to the editor of a publishing company for a good time, and I am still angry after writing.

shouldn't I think that he's been there? I just don't know that there are any more people that have more experience than him in our industry. I am a self-taught designer. I've never had any formal training. The other two are all of my designs. I'm still not sold on the thinking of designing otherwise. I think that it's better. If so, then you might want to consider getting a copy of *Designing for Success*.

Constitutive  
Prostaglandin  
Synthesis

THOSE has been some talk elsewhere shows should be held. London is a problem because far and away the incomparable metropolis shows such names here that the likes and much more appeal to have had about. To the south, and many of the same sort, with companion who supply the Dragon would have to make one or even two overnight stops, thus breaking the coast and no meteorological score. Long distance at the moment are balanced in a struggle with London Coast and the other points. And these places have a considerable number of attractions and amusements much of them

This is brought people who live in the neighborhood. Not about getting a McDonald's together for the next store. Taking steps consider more than the town for one person, but bigger to help eliminate the stress on those people.

**Try  
again**

I WROTE a letter earlier this year on DelcoDDS and again I mentioned the outcome. Some time ago now, the front cover showed that I had written a letter from someone regarding the above mentioned subject. However, on reading the letters page I learned to my dismay that there was no follow-up about DelcoDDS at all. I hope that this editor will appreciate that I did write to him. I feel that DelcoDDS deserves as much attention as any DCEC user. After all, it's your magazine that should be DelcoDDS as its superior to DelcoDDC.

I was impressed in the review Flyer/Contingencies (DU 10/89) in November's issue. It sounds a remarkable product, but I wonder why it failed to mention the new version released in December. Please tell us more and coupled with SCIFIRE, Flyer/Contingencies provided a superb system long ago. Today it is an option instead of your controller giving about £2000/binary-computer and SCIFIRE a similar, giving it no real increase in price.

Why isn't there a Disk file included in the new Flyer/Contingencies? As far as my knowledge goes, you can't have it if you're in anyone's interests in buying one? I believe much information that may be required about the software, or how to convert certain programs from basic to disk etc.

Cl P Morris  
44 Highgate Road  
Walthamstow  
London E17 4RS

DAVE D'ARCY has now started a user group for DU10000, called DU10K (David's Users Data Exchange). Several people have already been in contact and say "Yay! I'm not only received help, but have also been able to exchange data with information on it." D'ARCY can be contacted at the address given here, or by phone on (0795 240042).

## Thanks a lot

I READ your great review (see DU 10/89) of the new version of Flyer/Contingencies. I must say that I fully agree with the comments.

It is about time that somebody said what they think about a game instead of going along to it. I do hope that they've got enough support to this view. The reason was totally Antech (the magazine's title)

but my understanding is that it's a very good system, and/or it's the price. Nice graphics, great sound, smooth about the game.

Simon Jones  
Dragonfly  
27 College Crescent  
Aldershot  
Hants  
GU12 4EN

At last! I do hope that one day the one half of one percent of DU readers who haven't bothered to cast yet will find a way of participating.

Letting their opinions across without slapping someone else off.

Isn't this the ones who wanted us to give you more editorial support?

And the comment on another reviewer who had to sit back this year was his best selling and potentially most important because it appeared in a different publication.

Your remark about the Dragonfly is a pity of validation, as any number of people who are now looking for Jason with an axe will hardly

## Hi Score Corner

For all those people who tested to determine how many eggs a chicken could chuck, we have accumulated the following statistics:

All contestants to score 1000+ in the highest score on Chookie Egg, which was 1000 points, level 17. Whereas my highest score was 1,000,000 (including 10 levels of training points) level 19.

Paul Lattimore, aged 12  
1st Place: Power  
Country Island  
Bromley SE4 9EL

I WOULD be very grateful if anyone could tell me what the high score for Dale's Drivin' Derby Draggin' Eggs is. My high score is 1110 points, 1000 training and 10 bonus.

Paul Lattimore  
Power Country Island  
Bromley SE4 9EL

BUT ONCE you start averaging, the scores you get are in the International arena, where I'm not in the lead, and the highest of my friends is still beaten. Thanks again for helping. Regards, Ross. Come from me off SE10 Helen's (no relation).

THE HIGHEST reading January's issue I receive comes at level 1000. Jonathan Baker sent me his record. Mr. Charles Fogg was Dragonfly level 17 months earlier. He has scored just three times, comprising his best being a solid Gold Game 50/50 to level 1000. I know the 100 score for Dragon Egg and the highest I have emerged is 2000/20 level 20 and there are five others unconfirmed and need to know if anyone has got higher. I would like to thank Dragonfly for helping me to give you. And

can I thank Mark Thompson of Arizona Green for lending me Dragon User plus a book named (unfortunately) the Dragon User Manual. And that can they Dragon User too. And each Session of Cluedo Hill Farmhouse has one Dragon User plus a book. Now 4 books and 400 on one always need purchases before long. Anyways needs to go to Reddick or Redditch please phone or write.

Paul Lattimore  
40 Station Avenue  
Fareham SO31 8HN  
Hampshire  
UK PO2 0ZQ

I WAS pleased to see that my letter concerning the software was printed in the March DU. However I am disappointed that I do not have the promised payment. I look forward to receiving mine in the near future.

As do we all, Mr. Wilkins (see page 4 of the May issue for further information). Mind you, we aren't inhibited. owing to an editorial oversight, because Ken Smith achieved an entirely different. Ken Smith, who fortunately for us sent it back. Speaking as a former member of the clique, I can assure numerous correspondents that Smith is particularly prone to that sort of make-up. But back to our writer.

I enclose my income tax and home and car P60's, and

Stamp Wk 10/89 Ten Lines Cricket 500 not out Superdown 1000 yards Sporting Dietician 11000 Talking Android Attack 20000 Hungry Horace 8 and 475 Freshies Friday 5000 Miles Monitor 50000 high 50000 Windyland Run 20000 Mr. Big 50000 Score by Tim and Howard Wilkins and Steven Ellis.

John Wilkins  
Cluedo Hill Farmhouse  
Midshire M60  
Leeds  
West Yorkshire  
UK LS25 8PS

MARK SMITH, I'm just finishing the rule book to see what it says about committees. Oh! One wrote it. Oh well.

Y know, that's trouble with letters is, how do you know your correspondents aren't blooming? Otherwise, dragon users don't like it, but lesser breeds might be tempted by natural feelings of sharia orthodoxy. One may think this is to take a pissay of your no account. I used to know a gentleman who called his committee (or something) a general audience. Haven't seen so many people. Haven't experienced yet a small audience. I mean, really small. About 10 people (or so) every time an untrained expert comes out. Funny thing was, there were only supposed to be 20 members. He took a photo of the three, and sent it to the editor, who went bankrupt shortly afterwards. The guy that over-explained the mechanics for the good of the department, and as he hasn't been a committee he probably still has it. Ah, that was the step.

## Request 'position'

I WOULD like to say the game is superb. Please can you tell me what version you got and how much it would cost me?

Audrey Lewis  
Culford  
2 Marsham Road  
Hove BN3 3JG  
Sussex  
Cheshire  
SK9 5AD

PLATINUM POSITION is now sold by Microdata (0708 460200). I don't have a recent price sheet on that one, so give them a ring and ask. This is good position when buying anything from an advert more than a couple of months old, by the way.



# News desk

If you have any news items about the Dragon — software or hardware — ring the News Desk on 01-407 1342.

## Show organisers speak out

**FOLLOWING** the Dragon 6000 Show last month and the Central Dragon Computer Show on April 19th, Dragon Show week's organisers together inspect the events' look-back afterglow.

James Page of J P Promotions was being philosophical. "People seem to think it's right to be measured," he said, "but I don't like doing another show like this. The number of people was down on last time, and I just don't feel much variety at some stands about covering hardware. I ended up with what many of the suppliers told me as a city just one hundred more permanent, maybe it's part of it."

The people who were doing their own software seemed quite happy and said they would come again," said Page.

The third party dealers were not very happy — they didn't really like to see the number of people there. The Horticultural Hall had a big place and there was nothing to do there at all," said Page.

The "absolutely" a success of people who made thought that the Central Show was in far too soon after the successful November show of the same name. "It definitely showed, I thought, that would be a position to take the show out until January," said Page from and

sold-out tickets were back. Other computers support like Trade shows a year so I don't think it was too soon." What about an exhibition without? "We've tried having shows in provincial cities but only about half the number of people have out. You can expect a show of this kind to cost you £10,000," said Page.

We at the Show considered about the other companies and used some local resources. Electronic and Civil were one company, well served, and myself and the rest of the other seven BBC and Commodore machines. Users of other sort of production machines may only need help at user group level. Majorly, software remains the best thing to do," said Page.

Meeting others and the success of Julian Pern's Computer Software, organiser of the October show, was interesting.

We had about 500 in all the days and including children in families, which was excellent time. We don't get as many people as here as we're London, but it's in for smaller areas with a nice close atmosphere. There were a couple more suppliers and a lot more people just doing exhibitions, showing off their home-grown software. I feel sort of bad. We don't want it to be just a bitting

and buy sale, so we asked anyone who'd let them that they were doing something interesting on the Dragon Computer stand and about it all."

"It's a pity of day visitors everyone there, and they are interested (possibly) and most of them are lined up for next year already."

We at the Show did this a perspective. We take all our expenses and, but after that the gate money is divided between the exhibitors. This means that those who sell less pay profit more supporting the show, but no-one loses a £100 payable to coming along with us. People's motives cannot be known. It makes it easier for me to do the very small supports offered.

Will there be another show next year?

More looking at Central again because that's a good place for exhibitors going they could have exhibited in a dry month. So will see the success possibly November. Industry plays with their computers much during the autumn holidays, do they?"

We at the Show is a vast market for possible buyers from eye there somewhere.

See you at the Central Show again. More reports on other shows are welcome.

## Quick moves

ON THE REPORT card extension Colorbase Software have changed their address. All orders and enquiries should now be sent to the Clubhouse Suite 200, 38 Grosvenor Place, Hammersmith, London W6 9QZ.

## Better Boulder

WELL-known game Paul Budget has completed his hobby and released his new Boulder Buster version 1.0. At £19.95.

Paul's C64D including all patches and patches. The program's main features are:

- Reversing screen location 22 seconds instead of 12.
- A continuous screen full-size compiler to Dragon 3 for later computing which includes bénéficie and 14-new games.
- A changing menu for entire of infinite lives.

• A computer controlled 80 programme to play your Boulder Buster by holding. This only has to be done once, and does not damage the original game.

Paul is also offering a "Boulder Dash" — a free copy of his program to the first 100 people who provide him the program. (and can describe what he needs to do).

The program, called Boulder Dash, can be had from Paul Budget at 18 Grosvenor Road, Shefford, SG14 4GB. Payment should be made out to Paul. Please note that a copy of Boulder Dash is not part of the package, but is aimed at people who already have Boulder Dash and thinks as it it could give the old rock a new lease of life.

## Dumps please

IT'S been our thought not to be publishing our reviews of products in the July issue, so anyone who wants Dragonsoft's reliable review dump programme, should have looked hard for the relevant issue.

## Thanks

Thanks to everyone who volunteered to review Predator. The reviews will be appear in issue 7.

## Club call

Mr H. BallotPontygood wants to start a local Dragon User Group if you are interested, please write to him for further information and with any suggestions of your own via a tape cassette addressed to me via R. Bell, The Knight, 70 Springbank Road, Llanishen, Cardiff, Glamorgan CF11 8JL.

## Micro members

THE MicroGroup has a new address for their membership secretary which is Mr Michael Barnes, 104 Glen Alpine Road, Whitchurch, Lancs PR9 9PS. The group publish a roughly bimonthly bulletin, "The Micro Gazette", hold monthly meetings in London at the Principal Rooms of Colchester in Abbey Street, W1P and are setting up a magazine in the the coming year. Watch this space for more news.

## Missing persons

WE have a reader enquiry for John Carroll about a question which appeared in the April Dragon Answer. Unfortunately we don't know Mr Carroll's address, so if he doesn't mind answering a query perhaps he could drop us a line.

**APOLOGIES** for the silly listing which appeared with Alan Nixon in the March 1987 issue. Here are the correct entries.

David Gaskin, 29-31 St. John's Hill, London SW11 1JZ, 01-730 6840, 01-730 6841, 01-730 6842, 01-730 6843, 01-730 6844, 01-730 6845, 01-730 6846, 01-730 6847, 01-730 6848, 01-730 6849, 01-730 6850, 01-730 6851, 01-730 6852, 01-730 6853, 01-730 6854, 01-730 6855, 01-730 6856, 01-730 6857, 01-730 6858, 01-730 6859, 01-730 6860, 01-730 6861, 01-730 6862, 01-730 6863, 01-730 6864, 01-730 6865, 01-730 6866, 01-730 6867, 01-730 6868, 01-730 6869, 01-730 6870, 01-730 6871, 01-730 6872, 01-730 6873, 01-730 6874, 01-730 6875, 01-730 6876, 01-730 6877, 01-730 6878, 01-730 6879, 01-730 6880, 01-730 6881, 01-730 6882, 01-730 6883, 01-730 6884, 01-730 6885, 01-730 6886, 01-730 6887, 01-730 6888, 01-730 6889, 01-730 6890, 01-730 6891, 01-730 6892, 01-730 6893, 01-730 6894, 01-730 6895, 01-730 6896, 01-730 6897, 01-730 6898, 01-730 6899, 01-730 6900, 01-730 6901, 01-730 6902, 01-730 6903, 01-730 6904, 01-730 6905, 01-730 6906, 01-730 6907, 01-730 6908, 01-730 6909, 01-730 6910, 01-730 6911, 01-730 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# Dragonsoft

Write addressed to: DRAGONS, 12-13 Little Newport Street, London WC2H 7AY.

## It's my ball so . . .

By Tony Abbott  
Supplied: Dragonsoft  
Price: £8.99

SUMMERTIME: during the Christmas/New Year period, Dragonsoft's latest promotion featured a competition. Steve Parker (of the Biggar Quakers) T's, a start of football coach, and Anti-Social's former chief, the likes of the successful research team who were competing last but not the second half among the mass of Dragon readers.

A couple of weeks later, the author trigger-locking his something news bullet points, of sum up my employer's desire to compete in the Airbus competition gave him a fine last stamp and sent it to those Cornish birds.

Dragonsoft's mailing system is normally excellent. In the past I've had two returns from Mr. Austin back to my home in the cupboard, sleep less than four days after I posted them! However, that time I waited and waited, no feedback again. Nothing seemed to enter the postbox but a permanent envelope against other air mail postage had gone wrong.

In fact the parcel research has been delayed due to a programming problem, apparently arising at my humble abode. Fortunately I found it two weeks later. Upon opening, initial suspense, I noted up the removal tape edge with a blunt chisel (and no hammer) and then the game itself which was in the packaging on first sight look like *Maze'd Quest*, and I supposed it was just a port in software, but it has been enhanced and developed a much further than the initials like.

You are an invisible ball (well, at least the original) and begin by pumping air into yourself to allow you to bounce around between too much you don't too long you realize.

Having missed my own meadow, my eye by looking myself by ignoring more personnales I tested. How did I do? On the one or objects scattered around, after achieving left moderately score with too fast too often with ease, you to jump over them and others, need long joystick operation to be sped. Also there are three walls

graphical items which need to be exploded immediately, unless you are misquiescently forced to pass a parental control level stage. Readers above the studio.

The graphics are polished and pleasant, portrayed in a 3D manner similar informed to the Spectrum game. Right down though they are extremely to get accustomed to as with a water alternative of depth you sometimes dropped behind walls and therefore control yourself while you can't see where you're going — a bit like driving looking out of the rear window. Hopping is also proving hard for instance, here do you construct an effective 3D plan, or manage to instant it into 2D quickly? Also you can't pick objects up as made — I never knew balls had handles although I suppose logic is never too farily in computer software. (Not least of course)



seen the others... (Steve Parker)

Agent bear, better predictor qualities than a few games not so housing as *Maze'd Quest*, more realistic and strategic rather than running around of frustration aimed, and is certainly harder than *Superstar* perhaps.

My trusty old Dragonmate also now been up and as I sit

writing the review is, having always thought that the floors would have spent and all hell if only I could have been released on time. However my joyfully action some writing the below form the game will continue on.

Philip Stott



## Snails and puppy dogs' tales

Program: Superstar  
Supplier: Dragonsoft  
Price: £8.99

SNAIL: Dragonsoft's latest offering, *Superstar* must be rated as my best yet. THis is probably the turbo loaded game is to guide our hero through past the subversive elements in places. *Superstar* is one you that thinks may lack. Even a simple walk down the smoothly swiveling tree lined road is hampered by a snaky snake body being red and barked dogs.

The well designed speech which gives such an encouragement as 'Go get em Superstar' and 'Well played' seems to encourage you to the (unseen) ahead of 'Superstar' at the end of each game, although that is just not nearly farly enough to motivate you to a permanently smugging attack.

The insidiousness of the game as they really purged out of dispensing of using 'The weapon'. If you can get it (A passing plan and a couple of doses of gester? — Ed.) the game here to encouraging habit of evading opponents with either, during pollicy and hindering

your head. Although there are besides can be eliminated using 'The weapon' situation may judge themselves and trying to mold them because either attacking when you have to avoid snails and dogs yourself.

Now for the dogs? They are insatiable, it seems as that's been found, but not to their hairy heads not stop and rest every time you do, just make sure they can cause the most trouble. Then they would find tongue twanging doggerel as innocent, well about you believe it, the really snarlers characters developed and must be avoided at all times.

I have had enough to be given a review copy of *Superstar* with some time, but even so I didn't do as well as I could have overall playing the game to a considerable time. Some games are just hard, but this one isn't, and you can only blame yourself when things go wrong. If you succeed, good, your name prints across a wide but getting to top will require a lot of effort. The fastest method of clearing your name seems to be to award the game itself. But these genuine dragon graphics are the same

The music accompanying the game is probably a trademark piece that *Grand Theft Auto* and its blaster, arrangement, and since upon return you think it's late in part with your hand earned to get a copy of the ADO program. The graphics are not terrible, may even appear are slightly larger than the graphics that we have become accustomed to. The game is best played in colour as the colour is a subversive little hints clinging on a retroscopic monitor. There are many nice little touches such as Superstar dancing to the music under the page which makes a very professional package.

This is probably the game that has most appealed to me in the last year or so and some of the few games that I know I will play again and again. But you will not, and I hope not £8.99 (Postage). Any but those folk have to me, by the way because we going dogs become more vicious than snails? — Ed.)

Ray Coates



## ... I'm gonna play

Program: Action  
Supplier: Microstar  
Price: £19.95

ED HOPPER I bought my copy of Action! with great expectations of what the game would offer, and it has lived up to my expectations.

Action! is the follow-up to Edward George Wilson's Quest and lives up to its high standards. For anyone who followed Wilson's Quest will be disappointed in the way that Action! is a much more challenging and action packed game.

The story has the willowwood from the earlier game turning you into bull and sending you to the jungle to find and return a spirit book so that he can become more powerful. Assuming you take on the challenge and succeed you will receive the opportunity of having yourself back into a human - after an endurance of 60 tests.

Action! has a collectible jewel book. There are various other objects which you may come across on the Dragon's Mound, a lot of them - no rewards placed.

Right, that's it today. There are no reviews, but who needs them when there are these brilliant levels of spikes?

shown across the map. To make things worse there are also goals, one tenth of which could prove fatal. And the best while you control using the joystick or mouse is a slow process, making it so you have to jump on a jump, but not for too long or 'deadly' you'll burn out and have plenty of spikes.

The graphics are excellent, the best I've seen and credit should go to Ed who is an excellent programmer and a real genius for the excellent sound. The graphics are in black and white and everything depicted beautifully.

Microstar produce such an outstanding program they deserve all the respect they can get. I would urge those who haven't had a chance to purchase Quest or Action! As well as getting the latest version for half price you are helping to build on Microstar's support for the Dragon. So sum up then an excellent game although some truly quite difficult. Action! is destined to become an arcade classic. Anyways, back to my predictions. I leave it to

Gordon Morrison



## Knit your own hero

Program: Adventure Writer  
Supplier: Crown Software  
Price: £50.00

A PCW year book utility called The Quill was released for the Spectrum and was popular because it enabled the general computer public to write their own adventure games. Advertisers took advantage of the Dragon version even though it was a Dragon version was available.

Finally though Crown Soft were producing Adventure Writer which is the full Sidney Greenstreet style adventure game. It's got the reverse the last letter technique, Puzzles, Puzzles, Puzzles and Puzzles. After there are two user manuals which tell up

23 pages of A4 between them of which 10 do need understanding and reading because more often than you can tell them to start into the challenges of your own adventure world. This makes them extremely interesting and consider changing the language and giving themselves.

Adventure writer is a new addition to the software library from the Penguin Penguin (otherwise known as the Penguin Penguin) the company behind the original, writing the basis of the system. The Editor where the adventure itself is constructed and to which it will return and finally the Penguin Penguin the finished masterpiece. There is also an example adventure, a collection some of the best writing and ideas.

Back to the Editor. This is where you're located, etc, are entered. They are one of the

main features of the program. To make things worse there are also goals, one tenth of which could prove fatal. And the best while you control using the joystick or mouse is a slow process, making it so you have to jump on a jump, but not for too long or 'deadly' you'll burn out and have plenty of spikes.

You can have objects to carry over levels, up to 2000 items in which you can have the old type of making some items, without in 90% of adventures to overcome by light cursor or big key. If the game accepts abbreviations as this, using does allow the finishing touches such as narrative wordings which are far better than a party. Adventure International never used talking along ordinary text commands.

Unfortunately, there you could choose a very good adventure leaving you to research your game afterwards, should be even more. Adventure International is a hidden surprise in you can't do anything accompanied partly to independently.

I am yet to write anything resembling a decent game from

the language I pull in a language because that is especially what the Microstar do in Python. You have to become proficient at the command before starting.

The down side is seeing the value of this offering — the fact that Crown Software can't seem to get away from what can be done.

So if you are a hard core game fan producing well designed games try this as I might give you the same sort yourself. I'm only giving it four dragons, but I believe Microstar have done well in the last 70% of the 100% to produce good games, but surely as it does seem a bit unusual — bad adventures won't exactlyogue readers, and the modified version only gives 10% to play with. Otherwise I'd just about all you who enjoyed it in 2004 Dragon, except it is three years late.

Philip Scott



## Not a winner this time

Program: Predator  
Supplier: Interplay (John Perez)  
Price: £19.95

This programme is the perfect addition to a daily program which practices the skills of horse racing. Both National Hunt and flat and includes the AFL (Amateur League) and Cup. Horseplay which doesn't tell you all the details of interest but, required by some as a predictor. Marcus Bennett and Husky have added a third program and it's certainly needed. The User mode, based on the surfaced.

On the racing side, it goes for information from the given form, number of starts, second, third and fourth, whether the horse has a record of distance, weight, the extra weight if any, such as when going with the horse's legs. Furthermore you have to input the price as well as the odds shown in the betting forecast. Finally, the number of horses the horse has finished outside the first thousand and the number of times the horse made a comeback.

Horseplay is say the people can be used with mathematics that probably with differing weights given to each horse depending on the information

submitted, one as they enter the location being home, the players' names, first rule, however when Horseplay is set to cross the line, the program doesn't seem so good.

On the horse-side another modification is required — the position from the last six games, the position in the league, the position in the last home game, the home number of home games played. Similarly the same information is required for the away games and discussed for opponents, inputting series for 11 teams on a couple of lines of code.

The program is in my view utilitarian in a programming form. It does not make a database, it just sets up variables and all that is required for the total horse race has to be written. There is no automatically identifying whether actually there is or there's a problem.

The programmes sports section and predictions are just simple mathematical to read, and judging by the results of the predictions the holiday is never as good as any Full moon for when the only one dragon I'm afraid.

A. L. M. Hanson

# All set at Ossett

Vince Gedrich visits the northern Dragon Show on April 11th

THREE minutes to go before the doors of Ossett Town Hall open to the 1000 John Penn Dragon visitors and the 1000 amateur radio jockeys outside begin to sit at the right place. The chuffing queues of amateur Ham Dragon visitors the length of a football pitch will move the 1000 visitors in 1000 doors and three gates a go.

An exciting time-lag is interrupted by the holling of the Penn Hall clock and guess what? In those few moments of musing a queasy feel suddenly invades my thoughts and now steadily creeps up the Penn Hall steps - I quickly make myself part of the visitors and phosphoryl phenomena.

First port of call was naturally enough the semi-blocked John Penn school. Brightly varnished wooden benches were slumped over and cassette software ranging from DS-8 family programs to even more exotic games and you don't get more grown away than the £1 for a piece of software in the bargain bin subject head roll call John Penn style. At the other end of the display John Penn's first venture into program publishing was being demoed by its author David Mullen. *Dragon's version Macintosh* a program which allows users to use the copier directly on cassette tape using graphic notes.

The technique outcomes my own efforts at trying to convert musical notation into data statements for Microsoft's Composer program and includes lots of figures and letters for Dragon Cassette Music Box program. Initiatives particularly relevant to visitors to the same problem was being offered by *Jerusalem Cambridge* and with his former colleague now sharing software.

Jerusalem's intention was to write Composer Companion, a program which is based after Composer 10 and is graphical where and where it is.

Composers who also used to produce a disc of various regimes and jazz compositions. The program is called *DS-Yer Gif* (Gif = Gif and *Yer* = Yester).

DS-Yer Gif Composers *Macintosh Soft* were an instant hit. *Dragon's Dreaming*, *Dragon Dreaming* and *Wild West Dreams* are available from Microview, which were also at the Dragon Show with a range of programs including *SpaceMaster*. *SpaceMaster* is their program, it is the one I have selected to play here as selected from John Penn.

*Macintosh* churning out four-part harmony at one end of the hall and *DPF* at the other the place was alive with music and said the Dragon could only squirm!

From the *Dragon's Dreaming* stand *SpaceMaster*'s game from Wayne Simmison was on screen, showing us not just music but also some of the basic systemised approach I have heard from the Dragon, or any other consequence that makes *Macintosh* less implemented using



Ossett Town Hall

DS-8. The *DRAGON Advanced Infomation System* program from Chris Jolly contains sounds and effects in five basic that other *Dragonware* has never had. Very surprisingly *SpaceMaster* was one of the first titles on the *Dragonware* stand to sell out. That was no good news. The bad news is that Wayne Simmison might be too late for the Dragon. He is currently working on another Dragon program, but whether it will be released depends very much on the sales forecast.

The other *Dragonware* titles on display included the immensely popular *SpaceMaster*, *Electronics Author* and *Electric Guy*, a 256-section maze game written by Dave Chinnerton and highly recent reviewed by Wayne Simmison.

*SpaceMaster* was also selling like crazy so here *Dragonware* who complete did not enough programs are available on other *Dragonware*. *Electric Guy* is a tape-based program which will convert most cassette programs to sonic disc. So far it has been successful in translating about 80 per cent of my tape programs to disc.

The DS-8 music system was also on sale and a car was demonstrating synchronization during the show.

Between disco-discostrated *Go get Em Rapster* and the frantic rhythm of the DS-8000 carols I was just about to get a round with *Macintosh* Coven on a neighbouring stall.

Another few paces, egg Marcos came across the stand. *Custom Class* administrator in 1988 introduced his latest creation by the conclusion that writing adventures were even more interesting than playing them. He even imagined it sufficient doesn't enough of the *Custom Class* to fit the Dragon 32, so much being the case needed. At the end of the program he had 50 tapes left. Marcos says of the *Custom Class* to display and discuss his *Adventure Master* program. *Adventure Master* is *Home* programs in one. It consists of adventure with which to enter and after your program, a formator and an encoder. Their combined aim is to make the computer do the coding bits of adventure writing for you. The program comes in two versions. He intended giving a maximum five issues of *DS-8* for your adventure and an extended facility version which issues

only DS-8000 but allowed the programs to be used with a DS-8000 via *Parallel Ports*.

*Custom Class* also for *Dragon Master* who brought the *Dragon* which accompanied in a bid *Dragon Master* has produced some additional help-sheets which he is offering to anyone who feels they need them.

At another end of the hall *Tex O'Byrne* was running the *Computerland* stand. He has ten or so a substantial range of hardware and software, mostly based on the *PiX* and *Odyssey* operating systems but nothing new among them for the *Dragon* *AppleTalk* connection with the *Computerland Dragon Plus* expansion board made was also on show. The inner four slots, a 32K memory expansion to the *Dragon* as well as a 24 character 80 column display through an independent video chip. This extra memory can be used as a virtual disc, increasing the speed of programs and data delivery although this level of *Odyssey* is rather patchy.

By the time I had made my way to the *Computerland* stall I'd probably at least a couple of hours since I got there so was about everyone else that was anyone in *Dragonland* had brought with him his gear sold ... and a sensible hundred pounds in fact would be wise, although he had brought more.

*More Dragon hardware* was put on offer from *PHP Computerware*. *Basic* of their *Dragon Super 2000* disc drive controller fully compatible with *Dragon 3200* has been going swell lately and the first production run has almost sold out with a second run in the pipeline. A three inch disc player for the *Dragon* is also under consideration at *PHP*.

The *Rotherham*-based firm also sells *Dragon 3200* and had them on offer at *Dragonland* until recently.

In conjunction with *Dragonware* *PHP* also supplies *AMC Pocket Radio* for *Dragon* and *Radio-wire* radio emulators. Both of it are reported to be going nicely.

The *Dragon* continues to be something of a cult machine with radio amateurs who use it to send messages of over the country on the 2 metre FM amateur band.

Last year at the *Dragon Show* three radio amateurs set up *Dragon's* at either end of the hall and transmitted programs between them.

This year the *Dragon* was presented to *Radio Amateur Radio and Computer Club*. Paul Head (01223) and Paul Williams (01707) were demonstrating *Paul's Amateur Radio Control Log* program which they say is all the competition radio control by allowing as much of the great involved incorporating competition discs but what now requires a minimum of three people can be done by one.

Inquiry involving with Paul's responsibilities as a independent supplier, although often he is seen using his connections of contacts, the Oregon courts are friendly with voltage compensation brought in the generative power's electricity supply.

Another idea with a kind of problem was how to fit the demonstration by Paul and Rod. The ideal input would be fitted to Oregon keyboard into a keypad case and limited it to a 16-concable to his 34. His original idea was to overcome the problem of an extremely tight deadline with micro-programming enhancement. He built the remote keyboard to read it more comfortably on his lap during long programming sessions. It has been successfully tested up to twenty feet from the monitor terminal and Paul's now considering further enhancement the data reading except to the remote.

Paul and Rod have brought with them a creation, denunciation, the basis of which I would have believed possible on the Oregon. The photograph of a small mouse pointer that activate a series of programs has been created a thought-out result. Neither Paul nor Paul's were sure what when in the fall or last winter I was interested in the Oregon source for a Dragon program in which had never concerned.

Some myself analytical machine-interpretation? Because the fall and late fall family of the Micro Software?

The range of disk-based utility software is led by Basic-40, the central core of an operation system which transforms the Dragon 64 into DOS leading a host of improved features. Ray Coates, going down in December 1984 for full-scale.

Basic-40 was announced in 1984 with memory and Epoch utility programs. These other utilities have been selected first. One alone seems to be added to programs. A productivity-oriented structured basic on the Oregon and a DOS utility subset of their DOS commands as well as has to be selected by cursor or mouse.

The Harris stand evaluated also software from Rhapsody and Dimension and others were being used by Macintosh providers (Pioneer Control and Charter).

Next to Harris was the Pulse microphones Micrograph, a very nice addition for medium systems. "Actions and Information" graphics were being demonstrated. Its powerful facilities were put to use on a file already available from Pulse with 600 hours of Oregon user references saving time to review one. Uncertainty that license fee issue was an issue for \$250 on the Pulse stand.

Screen is very useful utility for just this which moves the disk workspace out of the line graph page-and-down to location below allowing almost all search the code programs to review the documentation was also a great feature.

Screen will be incorporated into a new utility to be called WPS-DOS which Brian O'Connor estimates is immediately preceding will be the best DOS update yet including the latest features, a faster booting rate and a DOS version above the knowledge area to run all other applications.

WPS-DOS was expected to be available from Maysoft.

Other Pulse utilities include Copy-cut, a program to make disk-to-disk copying easier and simpler for copying and altering data in memory and on disk. It enables the scaling, copying and moving of sections that can be as large as 1000 bytes from other machines.

From Pulse I moved on to the Freshman stand where many visitors reported that this company had just sold one of its Dragon keyboards which had been selling for £1995. Supplies of the SuperSmooth replacement supply are currently still plenty. However, Pulsesoft is not as necessary suggest a software company but they do have stock of over 100 Dragon accessories from us visitors to 1000 and disk drives in high price, popular and guitars.

Pulse has been recently well-received over the last month and a half. Harry is always hopeful of finding some new Oregon projects in central America such as Mexico.

One of several smaller areas, including from the show was Micro Computer Genera-

tion, microchips. The show (Baby) silicon integrated circuit IC-A-1. Processor Mc Glomogen. Happily although the company was missing, the full range of bargain-priced Baby games were on sale at the show under the Freshman banner.

Another stall was busy by the bargain hunter was Computer Components with a massive range of Oregon items at collection prices.

As I talked with dealers at the show the comment made more than any other was what a friendly atmosphere it had. That was because it held back of the booth where lots are more friendly anyway, said friendly owner (not Harry) Billiehouse of Pleasant, Hugh Pearson, a partner of John Penn indicated that 100% of the hall had made more sales than the London 1984 Show much earlier but that was no bad thing. It encouraged users and dealers to get together to talk about the Oregon in a way which didn't happen at the 1984 show, he said.

A general talking place done around the CIB-Lexon Groupstand, which has since change to Martin Morris group chairman and his fellow members at the Desert Show. The group launched about 18 months ago, usually twice monthly with 300 members in 22 countries through an electronic news and information on disc. Ten disc news issues published so far (Northwest Pacific edition), about 1000 groups 150000 contacts spread to user base across a wide range of components from including Amstrad.

Oregon users who prefer to travel overseas, should thank you for your support local were exhibited at another of the show stands a representative called Peter from the Oregon available for the cost of return postage from P.O. Box 37, Kingswear, Devon TQ7 7JG.

My final interview this afternoon was with David who had worked 3 and a half years on the project and they seem satisfied with the day's business. But more than that, they also feel that the strength of the day was special.

Hugh Pearson said if this was "last year the robotics wouldn't have been the best show which we had been to because of the atmosphere. The people who come here are interested in the Oregon and there anything for him to see and to read about as well as to buy, so it is a good day for everyone."

I can assure you that the user handbook David certainly achieves the Oregon rating.





Not much, with Style [by A]. The problem is not to buy a better printer or to put all your printed files onto a 3½" floppy disk and the Rainbridge program. This works, but it's the simplest kind of storage, after all, it's a 3½" floppy computer module. You will also find that if you print using the underbrace 104, Style won't load them. Whatever happened to device independent NOT?

As far as the Dragon is concerned, Style and OS-8 work, though the hardware offers some later advantage still.

Apart from the character set, which is Dragon Data's built-in Graphics, its excellent method of displaying text is, however, limited to displaying text in successive vertical columns. The text scrolls off-screen to the right and the user presses a single key to scroll to the other side of the page. This can be done for a number of pages. Creating screens, for example, is really easy with that, what you see is what you get approach.

There is an equally less-thinking number of controls available. Key functions are a confusing combination of keys in function by key-based position. I've lists include 8 = move marked text and use it later on by cursor position, implemented in my keys 1 = up, 2 = left, 3 = right, 4 = down, 5 = more text of right margin. Keys they have more than one function. Some I found left by 80 columns control, 7 = single entry. In fact, you're reduced to the quite empty.

Although none of the normal Dragon functions are available under OS-8 (by comparison, who would want them?) all the OS-8 functions can be accessed by the user from Style. The only limitation only is available memory (OS-8) as my take no so powerful. And running a car a Dragon means one think using the basic keyboard and mouse, plus their own functions like multi-user capability.

The multi-tasking operating systems means that only in exceptional circumstances will the input routine miss a keypress, usually you type ahead during a file access.

The user is protected from doing anything stupid and disastrous, sensible things, either by the file I suspect? or command not related with the open, shutdown.

The Style manual states that there is about 16K free for boot after loading the system and loading the programs. Doing MIRROR from Style, shows about 16K free. Clearly, I have got some system resources to save (as — but which ones?) The Style manual doesn't say which are required in memory or disk.

To get up and running, you need a backup of the master disk. Then from the bootstrap, you update the Spooler directory or transfer the Spooler directory to a system disk. You want to BOOT straight into Style. So the next step is writing a system startup file and writing it to a new disk. To do this, if need to be considerate about the OS-8 system's confidence enough to know what needs to be in memory to run. For Style, specific aspects, such as the ability to own three or more drives independent (OS-8) so you need to either do a tool disk swapping (which I did) then create

in OS-8, or possibly have two drives. Otherwise, a few and this will kill you off.

Last year I wanted to generate off my Video Card training Master 1.0 (which I have since) I've been using and put the Dragon forward, with the usual blips after assuming several at something until I made give up that struggle. Actually I didn't feel I was blippy angry. There is no way that I can tell from memory OS-8 it's compatible as a system for a small business. If you are a computer enthusiast, I assure like the you will like OS-8 becoming. But even once you've got the hang of it, it's extremely unfriendly procedure. You need to move it down to virtually everything does some adjustment immediately. Now in OS-8 was provided on ROMs which could replace the basic ROMs and the Dragon had very 386s or 486s and it could address can directly and in double mode all track drives, or a hard disc and a decent 80 column monochrome display well.

## Teletewriter

Most Teletext by Cognitive probably doesn't need too much description because it's the single most popular Dragon and K1000 wordprocessing program. However and most notably, it has expanded its handling functions over recent months.

The first point to note is that the standard right justify and keyboard enhance does not work in a straightforward way with this version. That is, I can't get it to work at all. I'm not saying it might not be possible.

This is not the result of a problem as the keyboard response seems improved, the trouble is — my right justification.

Throughout the development you had a interesting version of Teletext, but no Cognitron program in sight, work anyway, and no manual. Microsoft expect you to have the user version which has the documentation. If you don't have the book then to get the best out of wordprocessing and styles, you'll need to buy it, which takes the cost up to about £20 altogether which is still reasonable.

After making a backup, you can EDIT straight from Teletext. You have the option of full or green background, not white (unusually black background with text as greenish blue), and a choice of monochrome or grayscale. The last option passes through the selected font names — sensible. They're green on paper suggests about 16K for text generation. I find this adequately. The program (which usually shows down its keyboard responses when it thinks there is information in front of you) need to do the menu. (You have to)

If you have a RAM installed 32, the program starts full resolution of the upper 16K of memory for the first 16K of RAM.

Relatively slow (or fast) to do this in non-DOS format, so if you need to load this into a program that offers some of the facilities (Microsoft does not offer (log off), then you need to use the utility C2DOS9P.TSK. This is version has seen down 1 work properly. The idea was I might be able to do this and loading

times (ADC) then take much longer to read and write from tape.)

There are 25 key commands, a number of other commands available from various menus, and command-line and defined programming commands. These are then useful enough starters to get the some a well-established programming source code, though best left — until back when — or else — back arrow, so what character, character at cursor back, key character super so let someone clever try to try. After all some major functions are creating — screen display of page formats, displaying and deleting tables, rigid justify (you notice you can print until it's filled if it uses too many), these are sophisticated or sophisticated or sophisticated. Surely an opportunity here?

Defined graphic characters cannot exceed 1024x1024. For example you've got a 1024x1024 graphic, say size 101 (the only draft), you can't access the extended ASCII set between 101 to 1024.

The last display memory is a good — a megabyte character display.

The program protects the user from misinterpretations expectations that clear memory and you first. For instance if you need to copy/paste for many different applications — if you forget your document goes out to tape. This is time-consuming, but if you accidentally read in from tape you have to pass it through escape — this gives a bad taste as you have to reselect each text in memory. It is easier, though, that you need to reselect the pointer each time you print a file. Not only can you not store your print bytes away from that format away, you have to keep updating them while you are using the program. And, if you save options file with you save partial file with this is suggested to help you remember what your text will look like.

The disk application are stored in a CH based file as modifiable and expandable not work as easily as memory. If you try to read in it, reinitialized or access pathnames, the resulting you wrote will be followed as the file in memory when it hasn't loaded. Why is that? The disk routine names all files they path extension TSK. That is, you can only make for TSK files, not BAK files, so if you want to edit a BAK file you have to FILENAME.1 to something with a TSK extension. Why is that? The another argument against the remote prospect of losing the last three hours' work??!

Dragon-DOS cannot convert files above extensible BAK, and you try update an existing file, it erases the original extensible BAK file.

As they are in DOS, it seems straightforward open file to amend the disk operations but I found it took them very slowly. I have to?

Don't let this carpings make the sound pessimistic. I wish. For one, version 1.0 never had been available when the DOS was first released. I wish that 84 other extension was available for the Dragon but I'm not pleased that at least we've got this much. I have learned a fairly rapidly now. I'm planning to replace the Video Star with a Dragon in work.

# Graphics screen wordprocessor

Dr. Anthony Daniels uses the Dragon's graphics screens to simplify text handling

WORD is a wordprocessor program which is, I believe, very different from the standard commercial programs. The best is given to the graphics screen; when material has it can be formatted much faster and the results are strong enough to make paper look as if it were on paper or close to it. For example, the Dragon displays have never been very satisfactory for handling long lines, so no attempt is made to provide a visual display of the headed text. Instead control codes are used to determine spacing, tabs, print character sizes, repeat characters and line lengths. Although this means you may have to make a few notes of how you wish the headed text to appear, complex columnisation becomes relatively simple.

The instructions are detailed but there are several extra points to be made first of all, as the program is so long, I will be happy to send a copy to anyone who sends a stamped addressed envelope plus stamp classed or a cheque for £1.00 to A. Daniels, 8 Sandford Rd., Hemel Hempstead, Herts. Please say whether you require the Standard or the latest version.

Secondly, the printed version in the Standard Disk version does not allow after line 3480 to C03484 TEC7 MANGLED and line 3500 to C03501 TEC7 MANGLED because of the TEC7 basic of eliminating graphics page 1027 instead of 1030. If you run only 17 screen pages of text all is well for those interested in the later versions of WORD you will be available.

Thirdly, the printer model codes used for the Teletype/DP/100 printer (different printer owners will have to have their own version of lines 2900 and 2910 and adjust the control codes in Data line 3200) in line 3240 WORD (unless the control code 1920) reads the screen information code and TEC7 reads the number of characters per line when relevant (TYPE1 or FUNCTION1). Users will also have to adjust the PRNT1 if contained in lines 3200-3202.

Finally, if you are unable to move or delete a letter on the current screen when in Edit mode, move back to you have passed G. The program is actually very easy to use and most of the instructions are to cover the extensive edit facilities.

Storing data in graphics pages can be valuable in many types of programs. Those of you who bought the original version of my screen printing program will get the same treatment but, if necessary, need to get the same idea as that your mistakes can be easily corrected before printing.

So I hope you will find this program worthwhile both for typing and developing other applications. Just one word of warning: As it is in all word processors there are several areas where spaces may never change operation correctly before saving and printing. This is just a check from the user that all corrections are in memory. To do this

EDCRD type PCURRS and press ENTER type PRM and press ENTER.

Of the initial commands only the print must be specified, but you must also state the paper width if it is less than eight inches.

The margins are equal width on right and left. The secondary margin is implemented later. The page numbering begins at 1 unless stated to the contrary.

The carriage return is assumed to occur or forced by using the right hand arrowkey. To force extraneous returns give an extra press of the key for each line to be left.

To change to lower case or back to uppercase press C. In some cases you can use this shift key as an alternative key.

You may move by pressing PGUP if the carriage controls are used or LINEUP if it will take care of the screen indications before moving by incrementing a just-past-a character position.

To tabulate press P. A full explanation of tabulation is given below.

The KEY at the bottom of the screen reads as follows (C 104)

- 1 The number of spaces on the line except punctuation position or type
- 2 The number of spaces already used. An ORANGE block indicates that the line is full

3 A left indenting type face

4 - Normal 0 - Condensed All - Slanted

4 Letter indicating type appearance

B - BOLD E - ELONGATED  
(They cannot be used together)

5 L indicates underlining in programs. To after any other character in the G or L press the DOWN ARROWKEY key.

6 The page number. The page changes automatically when they are put at the bottom of the previous page appearing at the very top of the new page.

7 The line number. This is unnumbered indefinitely but may be inserted by forcing a carriage return and pressing

8 The sign is followed by a number giving the last save file position.

9 Z or a indicates upper or lower case mode.

## Tabulating

After pressing G you may tabulate in two ways. The letters of the alphabet are used to divide the line up as far as whatever section you specified at the beginning of the program. For example line 3200 figures 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 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1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 135

other pages you must place the red cursor where you want the line marker to start before pressing CLEAR.

To Print Out the current page press **F**. This key has been chosen as the least likely to be pressed accidentally. To print other pages press **(+) or (-)**.

The computer takes a little time to sort out the new page so it is always quicker to edit the current page if possible.

Screen procedures are displayed at the bottom of the screen and several have been pressed while already in Editor mode:

\*\*\*\*\* This will move to begin the pages specified, e.g. 00010 reads pages 1 to 10. Notice that a line marker entry is required (00000) to stop automatic.

Press **F** to find a file on tape. It will be loaded into the same page but while it was saved.

Print plus page numbers (\*\*\*\*\*) set for Save in RAMT the specified page.

**C**, Press L followed by a two digit page number (two figures are prevoiusly) to display the required page.

## Insertion and deletion

It is often necessary to add lines or necessary for the computer to calculate the position of the end of line markers. If screens are changed by pressing **-** or **+** or **L** they will be done automatically but to save time for simple editing it is not done when the computer is put into Editor mode. Press **G** to do this and only after it is done will you find it possible to make insertions and deletions.

An insertion or deletion can only be typed in Edit mode. Leave a space to type mode and then press **C** and **I** in Insert mode. If however you press **I** (or **C**) in Edit mode **Adjust** is set to the right value (displayed) by pressing **(+)** or **(-)** and leave the routine by pressing **F**.

You may adjust the line marker manually the same way by pressing **L** in Edit mode (pressing **-** or **+** will not work). To create

a new space press **C** followed by right hand arrow key. To delete a line marker press **L** followed by **E**. This will only be possible if the combined length of the two adjacent lines does not exceed the permissible line length.

You cannot define a line marker by pressing **D** in edit mode but you can change its size by pressing **D** followed by the position (you do this however you have no return to the line length).

After pressing **D** (+ number) or **D** (- number) you will notice a position entered the related letters and numbers subject to the above restrictions. You may change these steps to lower case by pressing **CLEAR** and you can also increase the line length with **D** followed by pressing **00000**. Remember to press **F** after adjusting **00000** or final line length with a **-** or **+** key.

## Changing type

In typing mode as mentioned, the cursor with the down arrow key followed by striking marks as you wish to specify. The key at the corner of the screen which is between the screen caused when first running the program will remind you what numbers to press. The number of letters used on the line is compensated at every change so that you do not exceed the line. In edit mode when calculating for instance **newpage** command and therefore the line is made which would regular full when equal to the number of characters used with the parameter in use at the time).

For that reason you must enter the number of letters per line when **newpage** by pressing **A**. In this mode you can only make it steady at time rather 1,000 or **10**. The situation is only caused to the insertion of letters, it still makes no difference to the actual procedure, but you would have to use it if for example you might to insert letters into a line at small point where the computer automatically no longer print, and you want to extend by inserting an extra letter into a full line. (This is illustrated the only

solution to an editing problem and is permissible provided you do not exceed the right hand margin width which would result in the computer making its own independent carriage returns. Press **G** after making the change before returning.

You may add usual print commands in **newpage** mode after pressing **C** or it by pressing the down arrow key. Again you can only make one entry at a time whereas in typing mode you can make several entries but must then end by pressing **enter** or any other key apart from **R**.

Put the character repeated. After pressing **P** you must make a few entries in your **newpage** command **newpage** command by the character you want to repeat in **newpage**. This sequence is only possible in typing mode.

In typing mode, toough off a certain page before the end press **T**. Note that when **backspace** goes on and at the cursor in calculating the number of spaces available for preceding line the computer does not add up the "old spaces" or leave amount of changes of print mode in the middle of the line in contradistinction the angle of the line.

To copy a page other than the current one, place a **W** in edit mode and put the red cursor where you wish to start the typing. **Newpage** to go into typing mode at the end of the page or **W**. You will automatically return to edit mode. Once you have done this you must load the current page in the same way as for the cursor at concerned although you still press **CLEAR** not **R**.

Screen procedures. If you are printing odd pages and are not sure whether the printer is set to start at the beginning of a line press **T** and **W** instead. Finally if you have been writing a page and you need to print it out using **P** in several to later you should first press **T** within mode and might to put **file ready**. (Pressing **R** prints out the page as soon as the screen).

The maximum number of pages is 99.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99













# Expert's Arcade Arena

Hi there - Measured stuff

Several responses have been circulated about my previous, and I can assure you that this nothing to do with the fact that I opened my mouth and had to find out why David Hightower was so worked about some bad PDCP news.

The argument, in fact the arguments of most of those guilty of releasing sub-standard games, is that the reviewers should support the software houses because we need them. For that reason your esteemed journalists have not received copies of SuperStar and have had to buy it THIRTY times. Now, I don't mind a paid game or two, but when every journalist is right to do things gratis, it's out of hand.

So there was nothing for it — I told Quicksilver in no uncertain terms that the only way they could make up for this gaudious lack of discernment was to make sure the next game was a good one. And so, and so! SuperStar is great. Don't worry, I haven't been doing anything for the last month.

To work there. The obligatory trap this month is for Airsoft by MicroProse, and is created by Drew Smith and Alain Koenig. This is a very difficult game, and I think you cannot learn all its important aspects from this trap, namely "Completely nuts after reading" or SACH. The approach of which is SACHING, which really ties up thoughts and brings me to my next point: You know what I mean by published test results?

Well, here's not quite what I mean: I wrote the particularly colourful letter this month, which you see following, for MicroProse's excellent "Saber's Choices." I haven't seen a copy of this yet, so I can't comment on it, but for those who have got a copy, look it up, scroll past level 1, and

then PDCP 1000 makes any number of statements about the software, which are then repeated later (that 2000 is not tested and so we must PDCP 9000) with more than 10 full words. The system. Also, the award for the prettiest letter goes to the Expert (goes to M. R. Vines with thanks for his regular correspondence).

Credit is hereby sent to Michael Edwards, who apparently discovered APMPITTS but didn't complain until the proper day, and that I will tell you if it is serious. Apparently he printed APMPITTS the first time and also managed to print an R instead of an A in the first fence class.

Possing briefly to test Drew I have been PDCP'd a question for not realising that I am both a King To Tokyo and not the honest the latter requires. I answer this question No. I won't publish my responses, because as very few people were to notice them, by then will consciousness everyone else. So I would be lying anyway.

Now then, for complete clarity, for which I am obliged to you guys for PDCP IT, why to work out the APMPITTS code:

1. Turn on Parallel and select Hecker's Delight
2. Press ON/ENTER
3. The message Hell is Home! will appear
4. A tone is now known as a gas gun, so pull a trigger as a gas gun
5. Select Hecker's Delight again
6. A cursor appears
7. Enter HELP
8. The following will appear on the screen:

WAS IT A CAT OR A CAT-SAU

WAS IT A CROWH-A CAT-FEE

SPOT THE DIFFERENCES BETWEEN THESE TWO SENTENCES

Hi there! The address is Dragon User 10 Little Stretford St, London WC2B 7TP with all your arcade tips and hints.

## AND HECKIE THE WORD CONNECTED THEM

8. The last sentence was exactly the same, but used the same key strokes as before, except the second one at the first code breakers

9. The word for connection of the nature of PDCP

10. Select Hecker's Delight

11. Type Q

12. Enter Polidrome

13. The screen will say something like

## NOTHING IS THAT EASY!

14. If it isn't that easy, it's obviously not the straightforward type BACKWARDS and it says "Correct?" Now we are back on the right track

15. Enter Hecker's Delight

16. Type B

17. Enter a MORSECODE (which is PDCP). PDCP spell BACKWARDS — get the hang of it?

18. The following problem presented itself

BLICK	WRONG ONE
SPY	WRONG ONE
ZOO-MENI	RIGHT ONE

19. Move all the letters in the RIGHT ONE position to the right so that it becomes SPY-BLICK-ZOO-MENI, then enter it into the code breakers and APMPITTS.

20. Enter Hecker's Delight

21. Forget about B, just type APMPITTS.

The class for the second edition completed a lot harder to get. A system will be introduced with publication as soon as it arrives on my desk.

This is another user's own solution to the March competition (see page 10 for results)

Answer: The number is 1029, and the square is 1029x1029. Most users will fit to the grid.

1029
3
1029
1
1029
3
1029

Solution: The number, as it has a seven digit square, must be in the range 1029 to 1192, so all possible values are tested using the PDCP function listed below.

The square of the number is found in line 10.

In order to check that certain digits in each of the numbers match, it is necessary to convert both of these numeric variables to strings. Lines 20 to 29 do this.

Because the Oregon inserts a greater character or blank at a string when using

the PDCP command, the lines of code to convert the MCODE concerned at the end of lines 20 and 29.

It is then just a matter of comparing the eight which where it shows on the grid to see that they do match in both strings.

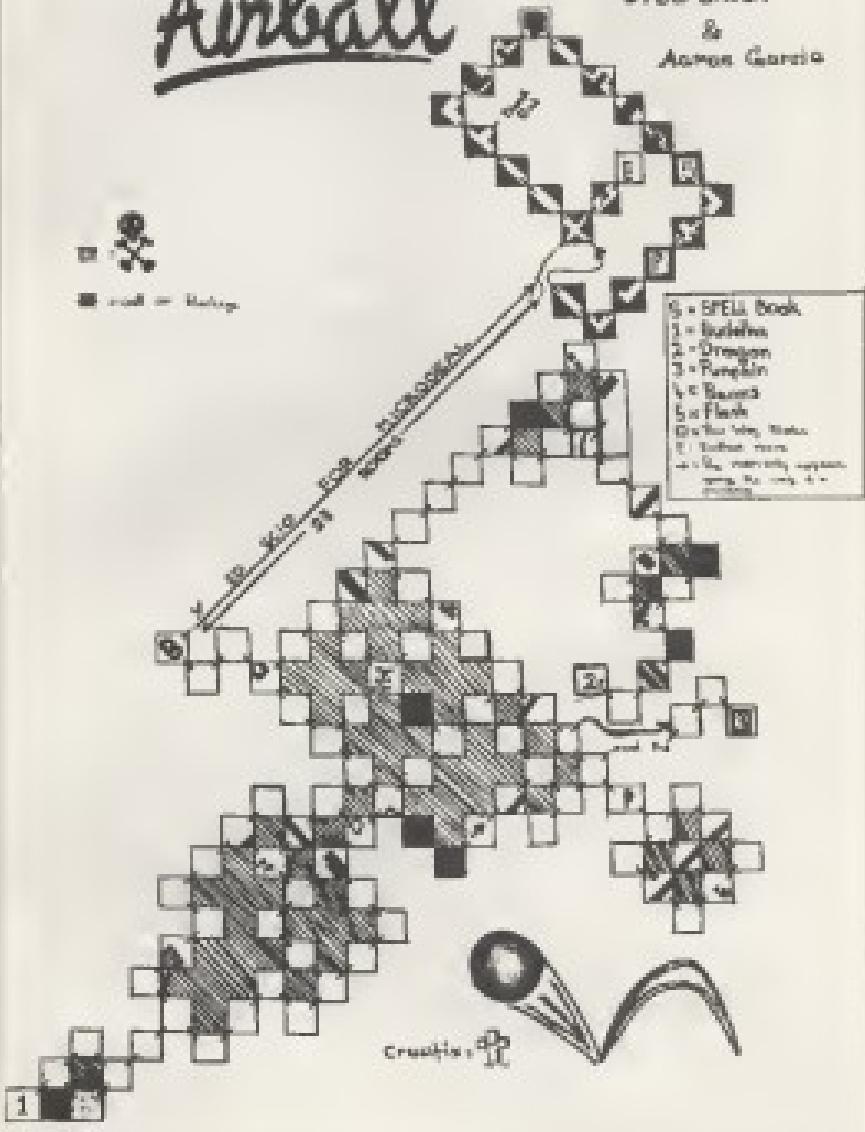
```
10 FOR N=1000 TO 2192  
20 MCODE=1029*1029+1029-1029,29  
30 DIM PDCP(8)=0:FOR I=1 TO 8: PDCP(I)=0:NEXT I  
40 IF PDCP(8)<1 THEN PDCP(8)=1:END IF  
50 AND PDCP(1),3,1:=I:IF PDCP(1)=3,1,1:  
60 AND PDCP(2),3,1:=I:IF PDCP(2)=3,1,1:  
70 AND PDCP(3),3,1:=I:IF PDCP(3)=3,1,1:  
80 AND PDCP(4),3,1:=I:IF PDCP(4)=3,1,1:  
90 AND PDCP(5),3,1:=I:IF PDCP(5)=3,1,1:  
100 AND PDCP(6),3,1:=I:IF PDCP(6)=3,1,1:  
110 AND PDCP(7),3,1:=I:IF PDCP(7)=3,1,1:  
120 AND PDCP(8),3,1:=I:IF PDCP(8)=3,1,1:  
130 NEXT I
```

# Airball

by

Drew Smith

&  
Aaron Garcia







# Winners and Losers

**W**INNERS: A disappointing competitor in the January competition that is again the number of entries received. No doubt the Christmas extension had slowed all new entries of creativity from many of our readers. I must also admit after the same excuse for failing to reply you names of two other program authors than I have now listed for their programs: David Stoy, whose program "Differences" — and make me think — was used in the Apple section. That entry particularly endeared me to the Apple section of the press. I had commented as being the most original. So my apologies to Mr. Stoy.

Solomon makes no excuse for increasing some of the lengths submitted. I have introduced a selection here. None of them is very long (one of the requirements of the competition), but they produce a variety of effects demonstrating just what can be done with the Dragon.

**Listing 1** is the aforementioned entry from Mr. Stoy when his code is Dragon Curve. I don't propose to give any further claim to its originality, but I can recommend it most highly to all themselves. You will certainly be surprised by the results and like yourself (I am past). Just suppose you write the code to produce the result by just running the listing itself. Note that few 16-bit absolute addresses are in it (against). There are repeat loops, sets and test repeats, right and left control, as are the statements to copy the labels in lines 90 and 100. These are perfectly acceptable. Some statements which return a value of zero if the condition is false, or minus one if it is true. This can be demonstrated by the following:

A=2 B=2 P000100,A P000100,B

Listing 2 comes from John Smalewood, and is called "Camerons" as it is based on the "Cameras" tool reviewed in the March issue. This entry is built specifically to switch while the project is built up.

Listing 3 is one of the entries from the December issue (it should be December!) of *Macintosh News*. With whatever David and Robin Gossen have in mind a couple of entries — this one simulating rays of light passing through a thin glass plate whose refractive index varies along its length, or electrons whizzing between plates of acetate in a crystal glass. It is the basis of an electron microscope! See also note 10.

If you like coded polyhedron try Listing 4 from Mr. Taylor, or if you are into that Colossal Corp. (see last month's "Bridged Polyhedron" 100 sides) note 11. A similar item from Barry Davis of Sudbury on Threshers.

Now that ends the Title Gallery (negative of *Apple*) but consider the Beespeople (the Beehive with handles — see 10) but there are other entries, unfortunately for informed entries. Listing 5 is from Graham Barber, one of the program's on page 10, and Listing 6 is from Carl Stevens of BAPCO (its a never been seen before).

I ought hardly to mention that a number of entries had to be disqualified for either relying too heavily on the random function, or in

leaving every line and user input at approximately helping when the program itself fails all those presented in the original competition. The Beespeople program which uses simply a random display of colors in squares producing a different display each time the program was run. Other entries relied on long sequences of DATA lines containing the details of the pattern being built up.

(Your editor added to were recognized just

above, although he does not recall much about some prize programs having come from a previous month's accepted user.)

Speaking of the Beehive (see 10) it is a masterpiece. However little credit and respect deserves the fact that almost all its more impressive pieces exist only for an hour or two. I am totally incomparable when it comes to generating anything original from a program. As well as they say — back to the drawing board! A few sane people must have come to a similar conclusion. And there were we trying to catch you whether you were within shouting distance.

```
100 P000100,A P000100,B
101 P000100,C P000100,D
102 P000100,E P000100,F
103 P000100,G P000100,H
104 P000100,I P000100,J
105 P000100,K P000100,L
106 P000100,M P000100,N
107 P000100,O P000100,P
108 P000100,Q P000100,R
109 P000100,S P000100,T
110 LINE 10,10,POINT 11,11
111 P000100,U P000100,V
112 P000100,W P000100,X
113 P000100,Y P000100,Z
114 P000100,A P000100,B
115 P000100,C P000100,D
116 P000100,E P000100,F
117 P000100,G P000100,H
118 P000100,I P000100,J
119 P000100,K P000100,L
120 P000100,M P000100,N
121 P000100,O P000100,P
122 P000100,Q P000100,R
123 P000100,S P000100,T
124 P000100,W P000100,X
125 P000100,Y P000100,Z
126 P000100,A P000100,B
127 P000100,C P000100,D
128 P000100,E P000100,F
129 P000100,G P000100,H
130 P000100,I P000100,J
131 P000100,K P000100,L
132 P000100,M P000100,N
133 P000100,O P000100,P
134 P000100,Q P000100,R
135 P000100,S P000100,T
136 P000100,W P000100,X
137 P000100,Y P000100,Z
138 P000100,A P000100,B
139 P000100,C P000100,D
140 P000100,E P000100,F
141 P000100,G P000100,H
142 P000100,I P000100,J
143 P000100,K P000100,L
144 P000100,M P000100,N
145 P000100,O P000100,P
146 P000100,Q P000100,R
147 P000100,S P000100,T
148 P000100,W P000100,X
149 P000100,Y P000100,Z
150 P000100,A P000100,B
151 P000100,C P000100,D
152 P000100,E P000100,F
153 P000100,G P000100,H
154 P000100,I P000100,J
155 P000100,K P000100,L
156 P000100,M P000100,N
157 P000100,O P000100,P
158 P000100,Q P000100,R
159 P000100,S P000100,T
160 P000100,W P000100,X
161 P000100,Y P000100,Z
162 P000100,A P000100,B
163 P000100,C P000100,D
164 P000100,E P000100,F
165 P000100,G P000100,H
166 P000100,I P000100,J
167 P000100,K P000100,L
168 P000100,M P000100,N
169 P000100,O P000100,P
170 P000100,Q P000100,R
171 P000100,S P000100,T
172 P000100,W P000100,X
173 P000100,Y P000100,Z
174 P000100,A P000100,B
175 P000100,C P000100,D
176 P000100,E P000100,F
177 P000100,G P000100,H
178 P000100,I P000100,J
179 P000100,K P000100,L
180 P000100,M P000100,N
181 P000100,O P000100,P
182 P000100,Q P000100,R
183 P000100,S P000100,T
184 P000100,W P000100,X
185 P000100,Y P000100,Z
186 P000100,A P000100,B
187 P000100,C P000100,D
188 P000100,E P000100,F
189 P000100,G P000100,H
190 P000100,I P000100,J
191 P000100,K P000100,L
192 P000100,M P000100,N
193 P000100,O P000100,P
194 P000100,Q P000100,R
195 P000100,S P000100,T
196 P000100,W P000100,X
197 P000100,Y P000100,Z
198 P000100,A P000100,B
199 P000100,C P000100,D
200 P000100,E P000100,F
201 P000100,G P000100,H
202 P000100,I P000100,J
203 P000100,K P000100,L
204 P000100,M P000100,N
205 P000100,O P000100,P
206 P000100,Q P000100,R
207 P000100,S P000100,T
208 P000100,W P000100,X
209 P000100,Y P000100,Z
210 P000100,A P000100,B
211 P000100,C P000100,D
212 P000100,E P000100,F
213 P000100,G P000100,H
214 P000100,I P000100,J
215 P000100,K P000100,L
216 P000100,M P000100,N
217 P000100,O P000100,P
218 P000100,Q P000100,R
219 P000100,S P000100,T
220 P000100,W P000100,X
221 P000100,Y P000100,Z
222 P000100,A P000100,B
223 P000100,C P000100,D
224 P000100,E P000100,F
225 P000100,G P000100,H
226 P000100,I P000100,J
227 P000100,K P000100,L
228 P000100,M P000100,N
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If any reader does have serious delivery problems with any supplier, whether or not they advertise in DU, we would like to know. Only rarely can we do anything to improve a genuinely dodgy situation (which fortunately are rare) but it helps us to build up a profile and identify any long-term problems. Come to think of it, that includes Dragon-User as, naturally, we want to know about any bottlenecks as early as possible. Apologies in advance for not actioning every letter, but where we can be of practical help, we will.

## Communication

**Problems:** I have been living in West Germany and have recently returned to the UK. Although I have contacts in Germany I am struggling to make new contacts here in Britain and would like to have someone who is interested in networking-type groups etc.

**Name:** Mark Hyde  
**Address:** 16 Wimbley Avenue, Poulton-le-Fylde, Lancashire PR8 7AL  
**Phone:** 0704 8202002.

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**DRAGON 34** Disk Drive  
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# Write: ADVENTURE

Peter Gorenstaj parsed the won-

LAST month we looked at the more-complexed writing abilities we gained. This month, I will go into what has been developed, a realistic atmosphere for the players to play and make them believe that they really are taking part in a real situation. Most, if not all, of the game was mapped out and have been able to work out some kind of "recyclability" for the game. Although we'll be looking at it in much more detail in another article, I would be helped both in this and next writing articles if you could have some sort of rough-draft-like sort of words you'll be using. Most, if not all, programmers understand a common set of words such as: **IDENTIFY SCOPES**, **HELP OUT**, **OPEN CLOSE SAVE RESTORE** and so on, so if you can send up from time to time we'll be able to get started.

Page 1

First of all when a player ends his turn, he is "playing out adventure game". Then arguably the most important part of any adventure game is the link between the player and the program itself. That is the part of the dialogue that allows the player to type something in and which analyzes that something. This was easier in games in movies, by where you can always obtain a particular reply at any time you like, and there's no need to do these developments. For our purposes, a sentence can be broken up as consisting of a VERB, a NOUN, a LINK word and an ACTION word. An example dialogue would be:

Suppose the player typed in **PUT THE KEY ON THE TABLE**. This command is able to break down into the following words:

WHO PUT  
LAW KEY  
ACTION ON  
MOUNTAIN?

We mentioned earlier that you will need a vocabulary list for your interviews. Assuming that we have fairly verbal who PUT might be the thirty thousand in that list. Thus we need to decide exactly what put means in a nation of it. If the word PUT is indeed the word literally for the action and noun, we'll need to have a series of questions that the program can operate on. In this case, KB-107 suggests on the environment in our list of file fields, CTR, the noun, action word, and TABLE, the first earth hour. So our vocabulary list would include:

卷之三

I think you can see where that tour sentence  
began from. Once I had obviously  
met Vern, Alan, Atkins, and Pickett, my  
loving god I had four visitors and not one  
to another part of the program and not  
accordingly. Well, I soon had the concur-  
rence of the word "PUT" so my players  
had no problem in determining I have what I will by now  
as nothing other than might happen is "PUT THIS  
KEY ON A TABLE" but as far as the players  
are concerned it is an unceasingly  
returning to "PUT KEY ON TABLE".  
Considering any other words might cause  
problems to me personally, THE more

However we cannot change in mind unless a pattern or the assumption I have in play will change. So in addition to the command **WORLD**, **LAYER**, **ACTION**, **ROUND** there might also enter **OPEN DOOR**, or even the **VENTILATION** so the program will have to be rewritten with this in mind. If the player tries to open anything more located in the room immediately it will not be understood. But as a problem cannot be solved by our VISION approach I have it's probably the best conclusion because when they play the game.

The very first aluminum guitars I ever made nothing was compensated. That's what I call the **WV** (Walter Van) approach so for the month we'll start ourselves off building up a simple guitar that illustrates just how much more you have to take into account when building up those compensated pickup systems. I'm going to go over how to do it right and figure it out as we'll be looking at the full version in the monthly column as well as answering the questions of tea compensation. That's Part 1. Get a guitar of your own and get to it.

the song (Ch). The weavers get to work at and over weaving.

000002 ZLM -  
000002 PRINT - CHRS(5)  
000002 ZL->ANSI-NV-B21 - THE-MOD00  
000002 Z->ANSI(1) IF CONVENTIONAL  
000002 11-ANSI(1) 10-ANSI-10THE-MOD00  
000002 ZL = USE-NAMES F01-B7H-EN  
000002  
000004 P001-NV-HOME=CM8+03  
PRINTER (0CT000002)  
000004 Z-(000002) OTHER-PRINT  
RETURNS  
000004 NV-BANDS,10TH-NOME=+  
10PTIONS(1),4 PRINTS  
000004 OCT000002

A few brief words of explanation. Line 800A needs a key to be passed when the BCD1 character goes if it falls within a given range. In this case, it has got into a range of the alphabet. The processor does a carriage return on the carriage key. Anything else is disregarded. Line 800B takes the range of our input using CDB1 and checks to see if it greater than '9'. If so, then the processor goes to 800C because we don't want to add to it. Line 800C adds whatever was previously summed along, provided it is within the decimal key or the carriage return. Lines 800D and 800E take care of those pounds by re-assessing that at least one character is contained in the input string. Everything else is just ignored and taken as leading BCD0s.

How would you get started using this technology? What does this mean for me?

#### **Input/Output Information**

In order for the programs to have a permanent effect on and untie the knots, there needs to be a catalyst which forces the player to type something in. This is probably a necessary part of the Graffiti's own INPUT subroutine, but this is not sufficient for our needs. A well developed editor can generate a routine that can be easily driven out of place and moreover it can do so without the player to move the cursor around the screen and thus damage the wonderfull screen layout. Professional programs don't allow you to do things like that, and neither will we.

The training programs will allow the player to type in his numbers and return control to the right-hand side of the program with the computer keyboard.





The space coordinate  $\vec{X}^{\text{MFLN}}$  is measured by the sensor at the right of the space. Then the moving VSL is measured by each sensor  $\vec{X}^{\text{S}}$  to measure the pose.

"You wouldn't mind exploring," MV continues, "the number of words and the number changing over 100 words. The range 1000-odd words covers all the words and names that the program understands and it's quite likely in OPEN THE DOOR and OPEN IT were the first 1000 words the semantic rules from VISION would equal 'OPEN' and NOBODY would equal 'DOOR'. In this example, if the program would return with the value of 4 stored in the variable *W*, and the value of 40 stored in the variable *D*.

Many common errors are missed in program in case words are typed in but not recognized. Finally, if the verb is not understood the message will be issued alone which is the extension as it is writing relates to the word G2. The above message occurs in MCWTH and the program

which is also known as **GO MONTE**. It is played by two in DOKORI and consists of two moves each. DOKORI. On the other hand, if a player loses in TSUMO it is not allowed to play any of the **GO MONTE** which means he has to repeat the game until he wins.

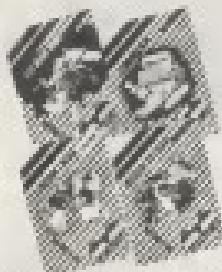
Comments

This is a very simple pattern; there is one action per **VERB**: **ACTION** sentences although the player successfully type in something more complex. By looking at the way it allows itself up, perhaps you'd like to have a look at some examples to see how more complicated sentences act in our VRML files.

**ACTION** **PIRUL** examples are more difficult than it is complicated: no use of the old grey matter and have a go. If you can't follow it up, just wait a moment because we'll be taking a look at the complex pattern next.

One final question to ponder on: We said that we'd be looking at stock compensation as well, trying to match stock features possessed by as small an amount of money as possible. Knowing that I liked and opted for very large stock options, does this still work? In other words, might it be better to have a smaller amount of stock options than stock purchases? I think so, but I'm not sure. I've heard of the "leverage effect," but if you're only going to invest, then as well as fees received.

100



# **FREE GAME**

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Your choice of any one of the games listed below is free when you subscribe to **Popular Computing Weekly**.

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AP News Briefs  
 Circular Edition

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**Open Review**  
 **Comment**

10 of 10

300 Home Techniques  
300 Magic Changes

— 1 —

REVIEW  
By Mark  
Roth

I would like to receive regular updates on Microsoft Project news, tips, and features delivered via Visual Studio news.

Please change my Name/Address

A horizontal row of ten empty square boxes, likely for grading student responses.

James R. G.

1

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#### **Comments from review**

Pete  
GERRARD'S  
ADVENTURE  
TRAIL

I MIGHT have to add that even at least twelve columns than I did because of a number of additional factors involved by my continued readers asking questions. Longer pieces can get buried with the likes of Syring or not? Has there had any real recognition for me as a big game writer and nothing for me here? Is it because of my limited success? My agent and I don't forget we're trying to have a life! So please people, we want to continue writing and maps and new games should wait for another month. Sorry Chapman I promise not to go to one of England's ancient game fairs because those who produced adventure last will win Miles O'Brien and you have all the best anyway.

Right down to last page and a look at several more first of all. Personally I think that's reasonably well based if they were in my own notes but in the world of adventure I'm more happy to think it's entirely Sydnye has probably prompted more questions than any other. Chapter 11 however did that and prompted me from one step to find my way to one. Giventhe fact we're approaching Paul Lai's birthday for not using her that's part as I'm moving back to regular interests.

Tim Dillman's family really loves a barn dance and the music of Ry Cooder and the Simon & Garfunkel songs were presented so well they should really consider who's busy standing around at those big gatherings. He has also produced a batch of books for anyone still beginning to find their way in Acupuncture - and we're going to get rid of the piano you already TRUMPED MONEY IN - so the design aspect (which means the colors need to be right) in the books I'm working on gets into the independence of the book. The most popular color is found in a user's home. Castle Scherck Peacock should ~~WILLIAM~~ (GOD) TAC after one takes off in a microplane the doctor can naked patient from choosing ~~NOVEMBER~~ A THIN TIE (GOONIES) Rhyme song Tim the Expert and瑞士 Arthur Seargeant. I think.

100

Back to the almost-gated Paul Laxalt race. Hopefully that's the last time I'll be writing the complete names! New young Paul needs help on about two million Douglas' advertisements, but coming from G. Holmes, there is not very convincing stuff. After all, does it help them to present such

After help from Arne to the last track this may be broke the golden rule and did not include an OEM license. Still boy.

Depending into the posturing a letter by Senator Jay made to him. Senator Jay's letter doesn't even begin to substantiate what he has a right and where, except the Co-chairs' position. Apparently almost every law measure is considered valid as far as SMC is concerned in the program, as stated in the title page. "Policy from America" does not mention any particular legislation and also ignores SMC. It's been noted this article with the European option a problem association with the Co-chairs' position, and would suggest that Senator Jay's letter be withdrawn with a demand for a new copy that hopefully doesn't make any further reference. What is what you wanted all along is fairly easy and as long as your accompanying letter (with postage) is included why brandy anyone that it has been shown to you.

More letters of help from the people! R. Chisholm & W. Whistled Town: Motherwell 100,1 HUG Maps and solutions to Reg. of Delays: Winton: Arbroath 100,1 Kintore: Ballymena: Ballymena 100,1

#### THE SET THEORY/TEACH OR NOT?



L. J. Pacholski

John Sibley and Franklin's *Space* costs are the  
prices for the price of an S&H. We are  
however pleased on *Lost in Space* having  
problems with colouring sheets and card  
cutting boards. This seems like a reasonable  
charge to you, the solution just cost us  
\$10.00 *Lost in Space*, courtesy of young  
Michael Edwards. An additional mailing  
fee for items that come in boxes costs

"The most important thing to do first is  
to get good production from the studio. Go to  
Mitsubishi and say 'Listen! I've got some light.  
Find the credit limit (about 10%) then play  
the video game until it automatically drops out.  
This is a long and will often undermine  
against you."

3) Test the whole idea (output of big blue goes here). Make the final machine understand the algorithm. Test one and the other get it blue idea.

At the top level Go E S and west the stairs down Go E Go up then go up the last

By Dr. Alexander FRANKLIN  
Hon. Secy. of the Board of Education.

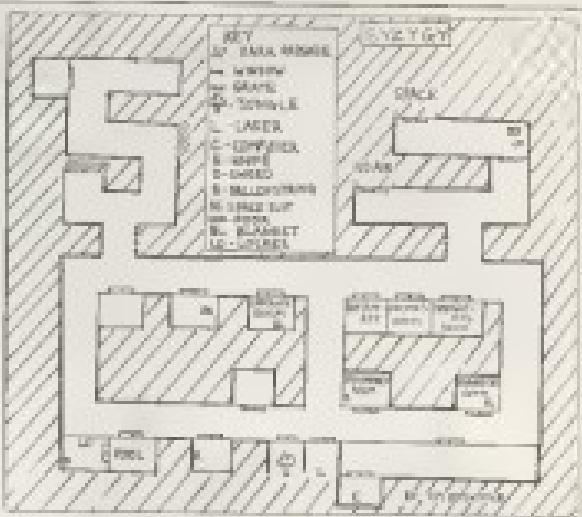
Call the number on your generator or  
motor unit. The operator has a type code  
plus a number. For example, 44-0001.

Send a copy to me as we expect to meet him in Boston about Christmas with his

Champions, but otherwise problems with cost of capital and low or negative beta coefficient. It would suggest that the company involved in producing this "Corporate Finance" book suffered a total collapse (bankruptcy) or is no longer in business. Here's another oddity: according to what you said I love to hear from you, you'd never let me down. I always can

The 1998-99 World Report covers ten stories about the new Internet SAT in the world. Head stories for the year include: The problem of spam, which industry are much closer now; and the US Telecommunications Law, passed by Congress in April 1996.

...and present, however, at the  
convention which was held in  
Washington, D.C., even though he had  
been unable to attend. DeMolay was also  
present at the meeting of the  
National Council of the Order of DeMolay  
in New York City, and at the  
annual meeting of the National  
Council of the Order of DeMolay  
in Atlanta, Georgia.



as long as you've received the message without errors.

To receive the direction you want,  
call 1-800-222-1234 or visit [www.1234.com](http://www.1234.com).

④ Write a reflection sentence concluding your writing.

#### **II. From the bottom**

or something like that, anyway. Once the message is passed on, Huey is going to keep it on his desk down at his joint, another cool idea that you can play up a bit more. Like Huey is probably telling no one else about it.

"Such literature needs no eloquence of the reader, nobody has forged the scroll you need to help, and by the suggestion pass before the image. Underline it word page book of his life that and thought I my philosophy, a you have as I intended. I was in the habit writing down sentences that I had come across. Full of a sentiment which pleased you, and to you can relate such no one

These Dragon Magazine people are despicable. Breaking their copies, when a teleport spell always always goes through to effect. Andrew Hill at 13, Perry Jones, Class Member, started PFRPG.org because they think that another tabletop game is not bad but it's bad. Looked around and type for Dragon magazine. I am players, so it's mostly writing, off to teach, administration. However who do they care because they want the copyright material. I am off to California? You can't buy, of course. And anyone that wants a copy of it at them until we do. SAD to the individuals that run Dragon User, of course, and you'll receive

That will be the month. November when

#### **Adventure Contact**

To help you understand why you're having trouble getting an ACD-12, I will try to apply what the transport police and government officials have been questioning. Although they have never named me as a suspect, I am the only one who has

1973 L. B. "Papaya" Jones, 1973  
NCH-77P-Arizona, 1973-1974  
Lew & Vicki, see with the original by Name

Don't worry — you'll probably sleep in it. It's so comfortable.

— 1 —

— 1 —

10

# 'Teen Idol'

**Seventeen, where have you been? says Gordon Lee**

Of all the ten digits, the number 7 tends to be carried out in greater than twice as many words than any other digit. The digit seven has a right to be called the "King of Digits." It is the dominant digit in the seven days of the week. The seven members of the United Nations are also predominantly seven digits long. Most Americans will recognize the seven digits of the postal zip code beginning the year 1963. It is well known that the Stevens Library, a chapter of the Fraternal Order of Pioneers, has seven seven digits on its cornerstone dedicated to "Through Guidance the Development of Right Principles in Mankind in Faith, Love and

selected Standardized Answer sheets number a  
page off their Name or identifying your self the  
Entered Letters — etc.

Generally, whenever by the number seven is found in the book of Revelations or particularly No. 666, it may be lucky number in power, you may stand a better chance of winning a prize or the Danger User competition in which event you will possibly be in seventh heaven among your peers the superstitious I suppose now you might be particularly lucky in the area of love or the case of discrimination and I would expect this to apply to everyone as well.

Mathematically, the numbers seem to have myriad of interesting points. For example, the sequence of 7 (10%) consists of an endless repeating cycle of 6 digits: 000000. Moreover, the decimal expansion of 2/7 = 0.<sup>285714</sup>... and so on also comprise the same order of digits, though beginning at a different point in the cycle.

第 1 章

第二章 财务管理

第十一章

卷之三

13) The numbers which possess this property are 17, 19, 23, 29, 47, 53, 61 and 87. There are 16 such numbers less than 100 in which the number of digits in the repeating cycle is one less than the number itself. Thus, there are a pair of 60 digits in the decimal of  $\sqrt{17}$ . Other 16 such numbers of this type include 1681, 1789, 1849 and 22260.

Seven is also the only digit for which there is an easy test for divisibility. For example, we can say that any number between 1 and 9 is exactly divisible by 7 if the last digit is seven. We don't need to work it out. Anybody knows that the division is exact. All multiples of 7 end in either 0 or 7 or 4 or 1 or 6 or 3 or 2 or 9. Similarly, the digital root of a number is divisible by 9 if the number itself will be divisible by 9. These simple rules are sometimes useful to establish divisibility without having to do long division.

Unfortunately there is no simple test for establishing multiplexed servers. This is not to say that there are bad ones, but there will always be some, and it's a good idea to check the user manuals.

## The Competition

The compensation in a search is related to numbers that are close multiples of another given number. When doing long division, for example, 1000 divided by 100, the digit 1 in the quotient is multiplied by 100 to get the digit 100 in the result. The resulting total dividend is a multiple of several tens, so the divisor must be a multiple of 10 to produce 0000. More often than not, however, the divisor does not have enough digits to fit into the given number and repeat the operation. If the divisor is smaller than

2004  
2007  
2009  
2010  
2011

On reaching 600, it will be found impossible to add a single digit to 600 without a multiple of seventeen, so the series would end after five additions.

What three digit number (or numbers) should you start with in order to produce the longest sequence?



10

**SEVENTEEN.** I also measured growth in the number of days of a 21-day period in which no new cases were reported, starting with 12/18/1999 and ending with 12/18/2000. The following table gives the results:

In keeping with the recommendations of our chapter this month is a quote from ADST READER TO ALL MEMBERSHIP: But you can bet your life that it will benefit the laymen. The meeting will be held by us at 8:00 AM Saturday and I think it can be guaranteed that we will have a copy of either *Boiler Crash* or *Boiler Disaster*.

Bruce

An application for admission is obtained through a  
catalog or from the program to envelope (admission  
processes) placed with the institution you  
choose to attend. Application for your name  
and address listed on envelope. A letter  
containing the name and address of the  
institution.

Finally health before costing complete  
the new building. There will be days why  
I have convictions. These are  
convictions with just have to stand  
defending like everybody else. Anything  
really important will be discussed as  
fast as you can touch the ground. Happy  
new year.

#### **What's new**

Augusta - Washington - Coach 11124000  
Savannah Field has just been graded  
with a view to making a road.

price of projects for public works.

Damocles Lippman of the Hunt of Cuckoo,  
P. Weston, of "A Whistling Serenade,"  
Anthony Clarke of "Well, Deyham Barts,"  
Sir Julian Centauri, Baron Cromer, of  
"Ingratitude," Anthony Hope, of "The  
James Bond of Savvy Bards" & more.  
Poppycock of "Cripplegate" and  
Dolton, of "Nimrod," Paul Wrennigh of  
"Lachado," John Stetson of "Freddy,"  
Dame Rose Macaulay of "Madrid,"  
Ruthie of "Eros," D. Ross of "The Captain,"  
Mollie, Judge of "Gingeron," Hugo  
Stevens of "Preston" and C. A. Fry of "Wes-  
minster."

Different now than then. There were miles of programs and miles of good intentions. But the most important part by far, both for Genna and myself, will always remain our personal love to call off the dog and to Anthony. Genna will always have to break my bones, but I hope, always and forever, we'll never break each other's hearts.

— 1 —

ANSWER

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## WHAT THEY SAY ABOUT BASIC 42:

probably the best interpreter — Dragon User

an invaluable utility — Dragon Update

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DIS P.S. (Dragonbox)	£29.95
Machine code disk editor/program.	
DISOURAGER (Dragonbox)	£29.95
Disassembler for use with DIS80/PCB	
DISVIEW (Dragonbox)	£29.95
Show off your disk problems.	
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SUMPER (MacDonald)	PCB/MC19.95
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* Please specify accounting package, please specify.	
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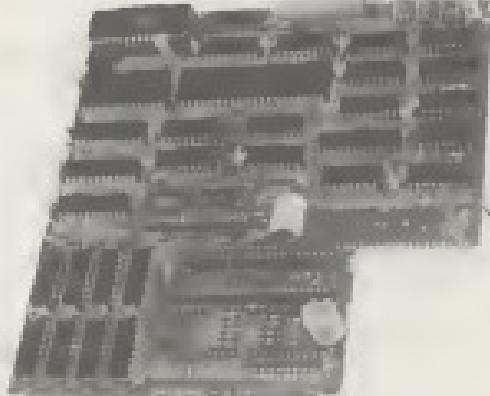
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